WANGEN PUMPS

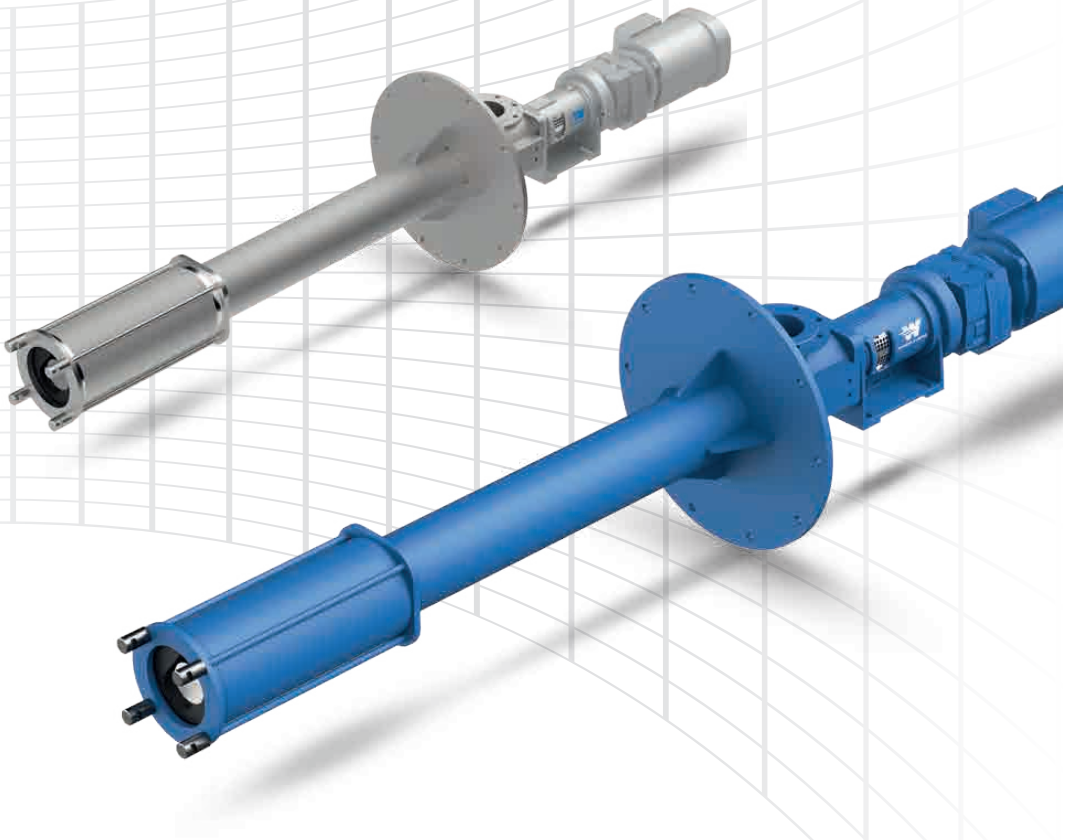
ROTOTEC

the power of flow

ONE STEP AHEAD

Immersion pumps

KL-T / KB-T



For conveying mediums from containers and barrels

Rototec AG Luzernstrasse 224c CH-3078 Richigen | +41 31 838 40 00 | info@rototec.ch | www.rototec.ch

WANGEN PUMPS

ROTOTEC
the power of flow

Immersion pumps

KL-T, KB-T

The WANGEN immersion pumps KL-T / KB-T are particularly suitable for conveying mediums out of containers and vats. The pumped mediums – whether liquid, abrasive, chunky, sticky or even highly viscous – are conveyed as gently as possible without impairing the structure and quality of the product.

Due to the vertical construction form, the WANGEN KL-T / KB-T has only a small space requirement. The consistent diameter of the joint connections ensures constant flow speeds and increases the insensitivity to foreign bodies. The low-pulsation continuous conveying of media is independent of the pressure and viscosity.

Technical highlights:
Max. flow rate 2,466 gpm,
Max. temperature 266 °F,
Maximum differential pressure 174 psi,
Viscosity up to 1,000,000 cP.

Pumps can be configurated according to your requirements, just as the length can be adapted to your particular needs.

Rototec AG Luzernstrasse 224c CH-3078 Richigen | +41 31 838 40 00 | info@rototec.ch | www.rototec.ch

Applications

Conveying Materials

Amongst other things, the following mediums can be typically pumped using the hygienic or standard versions of the KL-T immersion pump:

- Fruit juices
- Honey and jams
- Dairy products, such as milk or yoghurt
- Food products, such as chili sauce, olive paste, tomato paste, proteins, chocolate or bisquit dough
- Soup spices, soy oil, mustard, ketchup, mayonnaise
- Biogas substrates from mines
- Paints and laquers
- Calcium carbonate, chromium hydroxide and hydrogen peroxide
- Paper pulp
- Glycerin, vaseline and soap
- Pomace
- Sewage, coal flotation and refined sludge
- Inorganic sludges
- Liquid manure, also cow and chicken manure
- Waste oil, mineral and cutting oil

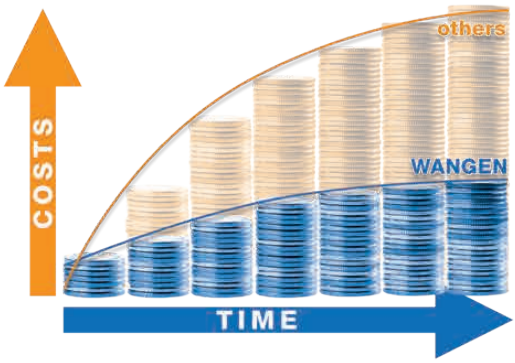
Rototec AG Luzernstrasse 224c CH-3078 Richigen | +41 31 838 40 00 | info@rototec.ch | www.rototec.ch

Benefits

Low Life-Cycle Costs

When purchasing a pump, we recommend that you carefully consider the operating costs as well as the costs for the initial outlay. Maintenance costs, production downtimes and energy costs make up a considerable share of the total costs over the life-cycle of a pump.

In this case, a decisive advantage of our philosophy becomes apparent: in order to keep total costs as low as possible over the entire life-cycle of the pump, our approach is to restrict the frequency of maintenance to a minimum. This can be achieved due to the robust construction of our pumps, the use of high quality wearing parts and choosing a wear-resistant design for each pump.



Every breakdown that can be avoided saves you not only the costs for spare parts, but also the costs for maintenance work and production downtimes. In this way, you decrease your expenses and save your nerves.

Easy Maintenance

WANGEN pumps are generally designed to be particularly user friendly and easy to maintain. Even an exchange of the rotor and shaft seal is easy to perform, due to the good accessibility of the connector bolts and the cartridge design of the bearing pedestral. This makes it considerably easier to carry out maintenance work yourself.

Rototec AG Luzernstrasse 224c CH-3078 Richigen | +41 31 838 40 00 | info@rototec.ch | www.rototec.ch

Technical Data

Options and Accessories

We offer a large selection of accessories, which are perfectly matched to our product range, providing the ideal complement or adaptation to your individual requirements and allowing you to create your own customized solutions. We would be also happy to assist you with special solutions.

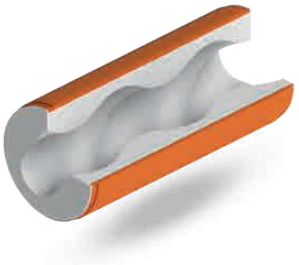
- Homogenizer for mixing
- Fugator for deterring foreign bodies
- Mounting flange
- Mounting bracket
- Three-point set up
- and much more

KL-T in operation with mounting bracket and three-point set up

Homogenizer

Spare Parts

By using spare parts from WANGEN PUMPEN, we guarantee that the performance output of our pumps will be fully restored. With our decades of manufacturing competence, you will thus also be able to profit from our first class quality as a manufacturer, and, as a consequence, ensure the long service life of your pump.



Rototec AG Luzernstrasse 224c CH-3078 Richigen | +41 31 838 40 00 | info@rototec.ch | www.rototec.ch

Technical Data

Models and Materials

In order to ensure the highest operating safety as possible, WANGEN PUMPEN only uses the best materials and components for the intended purpose. Our many years of experience in the conveyance of a variety of mediums ensures a design that meets modern requirements.

- Casing, pressure and suction flange: Grey cast iron, construction steel 1.0038 (A501), stainless steel 1.4301 (A304), stainless steel 1.4571 (A314Ti)
- Joints: stainless steel cardan joints, optionally with sleeve
- Seals: Mechanical face seals, shaft seals, stuffing box packing, single and double-effect mechanical seals
- Rotor: Hardened tool steel, stainless steel 1.4301 (A304), stainless steel 1.4571 (A314Ti), both available with chromium or chromium carbide coating
- Stators: diverse NBR materials, FPM, silicon, EPDM, pressure-stable 'even wall' designs, solid substance stators made of POM
- Rotors and stators in up to 8 pressure classes and available as S-, L- and H geometric forms.
- Drive: Gear motors, hydraulic motors

Performance Data KB-T

Pumps of the KB-T series (not shown) are produced in a block design, which is fully adequate e.g. for mediums which have a lower effect of force on the pump. The drive is directly flanged onto the pump housing. This makes the pump compact and economical to purchase. The block design is ideal for normal pumping use or for smaller flow rates.

Pump size	Maximum particle size (inch)	Flowrate (gpm) at 350 rpm	Maximum differential pressure (bar / psi)
20	0.94	20.25	12 / 174

Rototec AG Luzernstrasse 224c CH-3078 Richigen | +41 31 838 40 00 | info@rototec.ch | www.rototec.ch

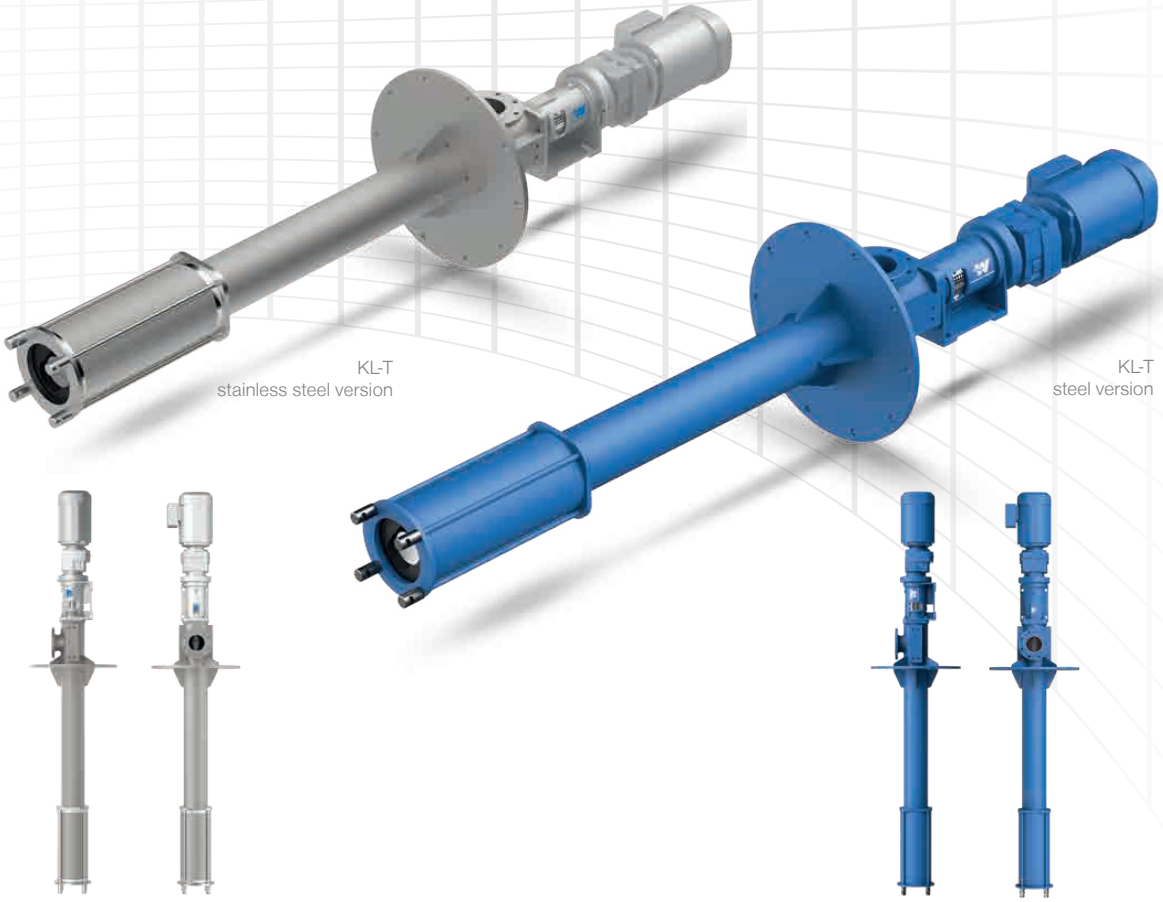
Technical Data

Performance Data KL-T

The KL-T series has a robust bearing pedestral with a direct flanging and self-centering drive. In this way, sufficient reserve forces are available, also in the case more sophisticated media.

For optimal filling of the pumping chamber, the stator has a funnel-shaped input. The specially tested sealing system of Wangen Pumpen contributes to the high operational safety.

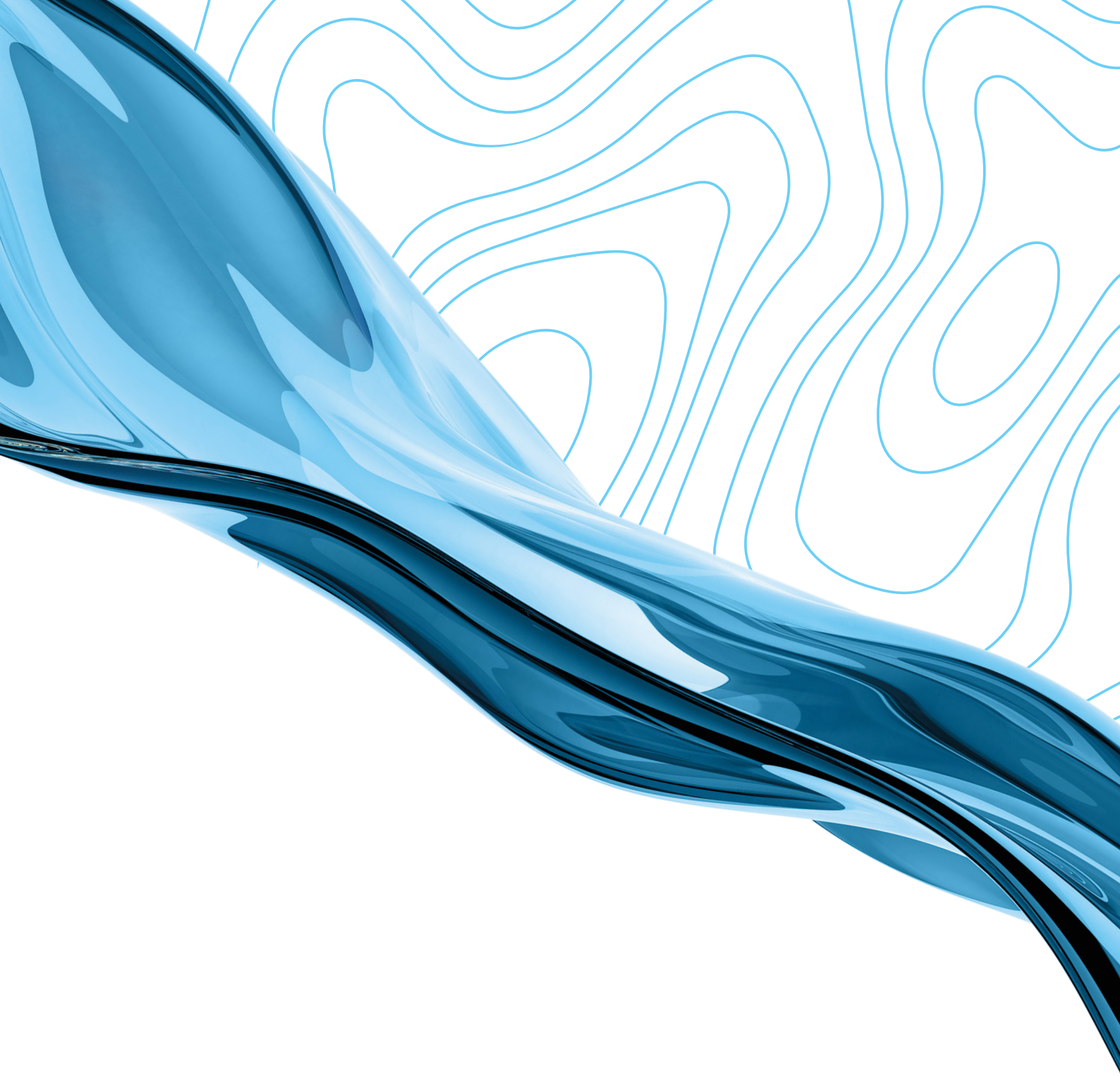
Pump size	Maximum particle size (inch)	Flowrate (gpm) at 350 rpm	Maximum differential pressure (bar / psi)
30	2.00	138.7	12 / 174
50	3.74	462.3	12 / 174
65	4.40	1,140	12 / 174
80	4.76	2,312	12 / 174
100	5.90	2,466	12 / 174



KL-T
stainless steel version

KL-T
steel version

Rototec AG Luzernstrasse 224c CH-3078 Richigen | +41 31 838 40 00 | info@rototec.ch | www.rototec.ch



Rototec AG
Luzernstrasse 224c
3078 Richigen

info@rototec.ch
+41 31 838 40 00
www.rototec.ch

ROTOTEC

the power of flow